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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,171	01/19/2006	Mori Nagayama	040302-0540	7246
	7590 04/17/200 LARDNER LLP	EXAMINER		
SUITE 500			WANG, EUGENIA	
3000 K STREET NW WASHINGTON, DC 20007			ART UNIT	PAPER NUMBER
			1745	
			-	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
31 DAYS		04/17/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/565,171	NAGAYAMA ET AL.				
Office Action Summary	Examiner	Art Unit				
·	Eugenia Wang	1745				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
·—	This action is FINAL . 2b) This action is non-final.					
•	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
. closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 1-43 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-43 are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

Detailed Action

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-14, drawn to a composition with a density gradient.

Group II, claim(s) 14-30, drawn to a method of making a composition.

Group III, claim(s) 14, 31-43, drawn to a combination the density gradient composition in a secondary battery.

2. The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I's special technical feature is a composition with a density gradient. Group II's method lacks a special technical feature as (a) the species election indicates before and (b) the X references in the International Search report is indicative its lack of criticality and thus the lack of a special technical feature. Group III's special technical feature is the combination of the use of a composition with a density gradient within a secondary cell. (Group I's usage of the composition within a secondary cell is intended use.)

Election of Species

3. Upon election of Group II, this application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of

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invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

- A) A method that involves changing the quantity of solid for an active material electrode slurry and then coating a collector with the slurry to gain a density gradient (claims 14-18).
- B) A method that involves changing the quantity of electrolyte salt for an active material electrode slurry and then coating a collector with the slurry to gain a density gradient (claims 14, 19, 22, 24, and 28).
- C) A method that involves changing the quantity of a film forming raw material for an active material electrode slurry and then coating a collector with the slurry to gain a density gradient (claims 14, 20, 23, 26, and 29).
- D) A method that involves changing both the quantity of electrolyte salt and a film forming raw material for an active material electrode slurry and then coating a collector with the slurry to gain a density gradient (claims 14, 21, 24, 27, 30).

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include

all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

4. The claims are deemed to correspond to the species listed above in the following manner:

Species A corresponds to claim 14-18. Species B corresponds to claims 14, 19, 22, 24, and 28. Species C corresponds to claims 14, 20, 23, 26, and 29. Species D corresponds to claims 14, 21, 24, 27, and 30.

The following claim(s) are generic: claim 14.

- 5. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: Species A's special technical feature is drawn to the varying of a solid in the method. Species B's special technical feature is drawn to the varying of an electrolyte salt in the method. Species C's special technical feature is drawn to the varying of a film forming raw material. Species D's special technical feature is drawn to the varying of both an electrolyte salt and a film forming raw material.
- 6. This election/restriction is deemed complex, since it includes plural groups and species election requirements. No phone call was made with accordance to MPEP § 812.01.
- 7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

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remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eugenia Wang whose telephone number is 571-272-4942. The examiner can normally be reached on 8 - 4:30 Mon. - Fri., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EW

GREGG CANTELMO
PRIMARY EXAMINER

My Car L

15 APRIL 2007